Certificate of Analysis for NR-45940

Staphylococcus warneri, Strain RN0833

Catalog No. NR-45940

Product Description: *Staphylococcus warneri* (*S. warneri*), strain RN0833 is a variant of strain RN831, a nitrosoguanidine-induced nuclease-deficient strain. In turn, strain RN831 was derived from the clinical strain Foggi(e) that was isolated from a human patient with a pyogenic infection. *S. warneri*, strain RN0833 is reported to be a naturally occurring producer of the *agrD* autoinducing peptide YINCTNFF, which is an inhibitor for the four *agr* groups. *S. warneri*, strain RN0833 is a methicillin-sensitive *Staphylococcus.*

Lot[1]: 64426183 **Manufacturing Date: 15JUL2016**

TEST	SPECIFICATIONS	RESULTS
Phenotypic Analysis		
Cellular morphology	Gram-positive cocci	Gram-positive cocci
Colony morphology[2]	Report results	Circular, raised, entire, smooth and white (Figure 1)
Motility (wet mount)	Report results	Non-motile
Hemolysis[2]	Report results	Non-hemolytic
Biochemical characterization		
Catalase	Positive	Positive
Coagulase[3]	Report results	Negative
VITEK® 2 Compact (GP card)	≥ 90% probability of being *S. warneri*	*S. warneri* (98% probability)[4]
VITEK® MS (MALDI-TOF)	*S. warneri*	*S. warneri* (99.9%)
Antibiotic Susceptibility Profile		
VITEK® (AST-GP71 card)[5]		
Beta-lactamase[6]	Report results	Negative
Cefoxitin screen	Report results	Negative
Benzylpenicillin	Report results	Sensitive (= 0.06 µg/mL)
Oxacillin	Sensitive	Sensitive (≤ 0.25 µg/mL)
Gentamicin	Sensitive	Sensitive (≤ 0.5 µg/mL)
Ciprofloxacin	Sensitive	Sensitive (≤ 0.5 µg/mL)
Levofloxacin	Report results	Sensitive (≤ 0.25 µg/mL)
Moxifloxacin	Report results	Sensitive (≤ 0.25 µg/mL)
Clindamycin (inducible resistance)	Report results	Negative
Erythromycin	Report results	Sensitive (≤ 0.25 µg/mL)[7]
Clindamycin	Sensitive	Sensitive (≤ 0.25 µg/mL)
Quinupristin/dalfopristin	Sensitive	Sensitive (= 0.5 µg/mL)
Linezolid	Sensitive	Sensitive (= 4 µg/mL)
Daptomycin	Report results	Sensitive (= 0.5 µg/mL)
Vancomycin	Sensitive	Sensitive (≤ 0.5 µg/mL)
Minocycline	Report results	Sensitive (≤ 0.5 µg/mL)
Tetracycline	Report results	Sensitive (≤ 2 µg/mL)
Tigecycline	Report results	Sensitive (≤ 0.12 µg/mL)[8]
Nitrofurantoin	Report results	Sensitive (= 32 µg/mL)
Rifampicin	Report results	Sensitive (≤ 0.5 µg/mL)
Trimethoprim/sulfamethoxazole	Sensitive	Sensitive (≤ 10 µg/mL)
Etest® antibiotic test strips[9]		
Teicoplanin[10]	Sensitive	Sensitive (= 1.0 µg/mL)
Genotypic Analysis		
Sequencing of 16S ribosomal RNA gene (~ 870 base pairs)	≥ 99% sequence identity to *S. warneri* type strain (GenBank: L37603)	100% sequence identity to *S. warneri* type strain (GenBank: L37603)[11]

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TEST	SPECIFICATIONS	RESULTS
Purity (post-freeze)[12]	Consistent with expected colony morphology	Consistent with expected colony morphology
Viability (post-freeze)[2]	Growth	Growth

[1]*S. warneri*, strain RN0833 was deposited to BEI Resources as part of the NARSA collection. NR-45940 was produced by inoculation of the deposited material into Tryptic Soy broth and grown 1 day at 37°C in an aerobic atmosphere. Broth inoculum was added to Tryptic Soy agar with 5% defibrinated sheep blood kolles which were grown 1 day at 37°C in an aerobic atmosphere to produce this lot.
[2]1 day at 37°C in an aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood
[3]1 day at 37°C in rabbit serum with 0.15% EDTA (Coagulase Plasma BBL™ 240827)
[4]Percent probabilities above 90% indicate a close match to the typical biochemical pattern for the given organism, with a percent probability of 99% being a perfect match between the test reaction pattern and the unique biochemical pattern of the given organism or organism group. For additional information, please refer to O'Hara, C.M. and J. M. Miller. "Evaluation of the VITEK 2 ID-GNB Assay for Identification of Members of the Family Enterobacteriaceae and Other Nonenteric Gram-Negative Bacilli and Comparison with the VITEK GNI+ Card." J. Clin. Microbiol. 41 (2003): 2096-2101. PubMed: 12734254.
[5]Minimum Inhibitory Concentration (MIC); MIC Interpretation Guideline: CLSI M100-S22 (2012)
[6]The production of beta-lactamase was detected using a Cefinase™ Paper Disc (BBL™ 231650).
[7]*S. warneri*, strain RN0833 was deposited as having an intermediate susceptibility to erythromycin. Antibiotic susceptibility testing performed in duplicate determined that strain RN0833 is susceptible to erythromycin.
[8]MIC Interpretation Guideline: EUCAST Version 4.0 (2014)
[9]1 day at 37°C in an aerobic atmosphere on Mueller Hinton agar
[10]For teicoplanin (bioMérieux Etest® 412459), a MIC ≤ 8 µg/mL is sensitive, a MIC = 16 µg/mL is intermediate and a MIC ≥ 32 µg/mL is resistant.
[11]Also consistent with *Staphylococcus pasteri*
[12]Purity of this lot was assessed for 7 days at 37°C in an aerobic atmosphere on Tryptic Soy agar with 5% defibrinated sheep blood.

Figure 1: Colony Morphology

Date: 23 AUG 2016

Signature:

BEI Resources Authentication

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

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